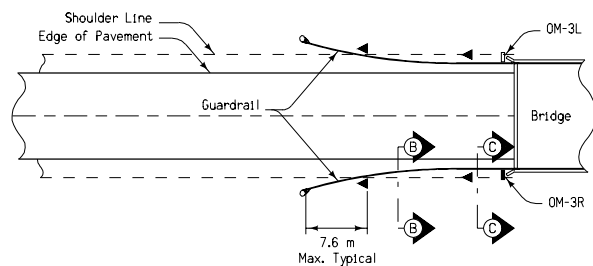


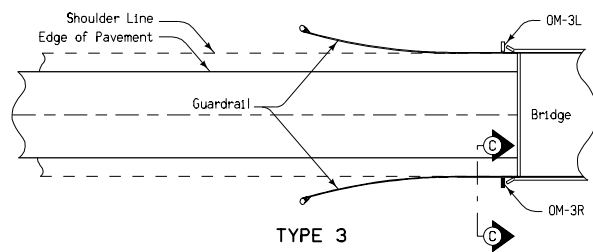
**TYPE 1**

BRIDGE - LESS THAN 10 METERS WIDE BUT NOT FULL SHOULDER WIDTH



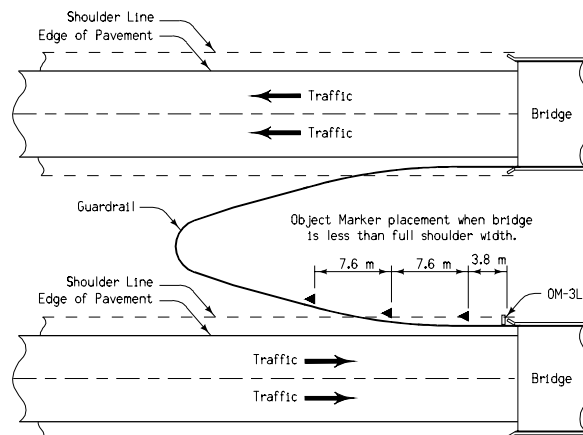
**TYPE 2**

BRIDGE - 10 METERS OR WIDER BUT LESS THAN FULL SHOULDER WIDTH



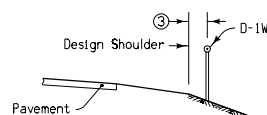
**TYPE 3**

BRIDGE - FULL SHOULDER WIDTH

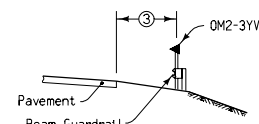


**TYPE 4**

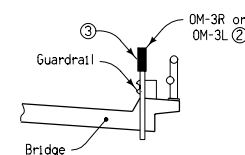
BRIDGE - BULLNOSE GUARDRAIL INSTALLATION



**SECTION A-A**



**SECTION B-B**



**SECTION C-C**

LEGEND ③	
□	Type 3 Object Marker, Left (OM-3L)
■	Type 3 Object Marker, Right (OM-3R)
◀	Type 2 Object Marker (OM-2-3YV)
○	Single White Delineator, (D-1W)

- ① Not required on projects where delineators are proposed or installed throughout the length of the project.
- ② All Delineator and Object Marker placement shall be behind face of guardrail. The edge of object marker (OM-3L or OM-3R) shall be aligned with the face of guardrail.
- ③ Refer to Standard Road Plans RE-7 and RE-47.
- ④ At ramp terminals only, install Single White Delineators as follows: Place first delineator at location where near ramp terminal radius meets the edge of the through pavement. Place additional delineator(s) spaced evenly (spacing not to exceed 60 meters) between first delineator and guardrail.

**GENERAL NOTES:**

TYPE 1: For bridges that are less than 10 meters, but not full shoulder width. Beginning 7.6 meters from the approach end of guardrail, install Type 2 Object Markers (OM2-3YV) at 7.6 meter intervals behind the guardrail. Install a Type 3 Object Marker (OM-3R and OM-3L) at the bridge ends. On paved roadways only, install 7 Single White Delineators (D-1W) at 60 meter spacing beginning 60 meters in front of the approach end of the guardrail. For ramp terminals, see note 4.

TYPE 2: For bridges 10 meters or wider, but less than full shoulder width. Beginning 7.6 meters from the approach end of guardrail, install Type 2 Object Markers (OM2-3YV) at 7.6 meter intervals behind the guardrail. Install a Type 3 Object Marker (OM-3R and OM-3L) at the bridge ends.

TYPE 3: For full shoulder width bridges. Install a Type 3 Object Marker (OM-3R and OM-3L) at the bridge ends.

TYPE 4: Bridges with Bullnose Guardrail Installation. Install a Type 3 Object Marker (OM-3L) at the bridge end.

For full shoulder width bridges:

No Delineation required.

For less than full shoulder width bridges:

Install 3 Type 2 Object Markers (OM2-3YV)

Install first object marker 3.8 meters from bridge end post installing remaining two at 7.6 meter intervals.

All dimensions given in millimeters unless noted.

<b>M</b>	<b>Iowa Department of Transportation</b>	
	<b>Highway Division</b>	
	<b>STANDARD ROAD PLAN RE-48A</b>	
	REVISION: Modified Type 1 and Type 2.	REVISION NO. 10
	APPROVED BY <i>William J. Sten</i> DESIGN METHODS ENGINEER	REVISION DATE 10-21-03
<b>METRIC VERSION</b>	<b>DETAILS OF MARKER AND DELINEATOR PLACEMENT (AT BRIDGES)</b>	